Tecumseh

Performance Data Sheet

VSC5529BNA

General Information

Model	VSC5529BNA	Refrigerant	R-410A
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	9230	7930					
	Watts	1600	1750					
	Amps	7.44	8.46					
	Lb/h	112	101					
-10	Btu/h	11200	9900	8670				
	Watts	1620	1770	1980				
	Amps	7.43	8.44	9.59				
	Lb/h	135	125	115				
-5	Btu/h	13200	11900	10600	9380			
	Watts	1640	1790	2000	2250			
	Amps	7.42	8.41	9.54	10.9			
	Lb/h	158	149	140	131			
0	Btu/h	15200	13900	12600	11300	9960		
	Watts	1640	1800	2010	2270	2590		
	Amps	7.40	8.38	9.49	10.8	12.3		
	Lb/h	181	173	165	157	146		
5	Btu/h	17400	16000	14700	13400	11900		
	Watts	1630	1800	2020	2280	2590		
	Amps	7.38	8.35	9.44	10.7	12.2		
	Lb/h	204	197	190	183	173		
10	Btu/h	19600	18200	16800	15400	13900	12200	10200
	Watts	1620	1800	2020	2280	2590	2960	3400
	Amps	7.34	8.30	9.39	10.6	12.1	13.9	15.9
	Lb/h	229	222	216	210	200	187	169
15	Btu/h	21900	20500	19000	17600	16000	14200	12200
	Watts	1610	1790	2010	2270	2590	2950	3390
	Amps	7.29	8.26	9.33	10.6	12.0	13.8	15.8
	Lb/h	255	249	243	237	229	217	199
20	Btu/h	24400	22900	21400	19900	18200	16300	14100
	Watts	1590	1780	2000	2270	2580	2940	3370
	Amps	7.24	8.20	9.27	10.5	12.0	13.7	15.7
	Lb/h	282	277	272	266	258	247	230

25	Btu/h	27100	25500	23900	22300	20500	18500	16200
	Watts	1560	1760	1990	2260	2570	2930	3340
	Amps	7.17	8.14	9.21	10.4	11.9	13.6	15.6
	Lb/h	311	306	302	297	289	278	262
30	Btu/h	30000	28300	26600	24900	23000	20900	18500
	Watts	1530	1740	1970	2240	2550	2910	3320
	Amps	7.08	8.06	9.14	10.4	11.8	13.5	15.4
	Lb/h	342	338	334	329	322	311	296
35	Btu/h	33100	31300	29500	27600	25600	23400	20800
	Watts	1500	1710	1950	2220	2530	2890	3290
	Amps	6.99	7.98	9.07	10.3	11.7	13.4	15.3
	Lb/h	376	371	368	363	357	347	331
40	Btu/h	36500	34600	32600	30600	28500	26100	23400
	Watts	1460	1680	1930	2200	2510	2870	3270
	Amps	6.88	7.89	8.98	10.2	11.6	13.3	15.2
	Lb/h	412	408	404	400	394	384	369
45	Btu/h	40200	38100	36000	33800	31500	29000	26100
	Watts	1420	1650	1900	2180	2490	2840	3240
	Amps	6.75	7.78	8.89	10.1	11.6	13.2	15.2
	Lb/h	452	447	444	440	434	424	409
50	Btu/h	44100	41900	39700	37300	34900	32200	29100
	Watts	1370	1620	1880	2160	2470	2820	3210
	Amps	6.61	7.66	8.79	10.0	11.5	13.1	15.1
	Lb/h	494	490	486	482	476	467	452
55	Btu/h	48400	46000	43600	41100	38500	35600	32400
	Watts	1330	1580	1850	2140	2450	2800	3180
	Amps	6.45	7.53	8.68	9.95	11.4	13.0	15.0
	Lb/h	541	536	532	528	522	512	498

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.783454E+04	1.147309E+03	-1.899768E+00	4.507701E+02
C2	4.182442E+02	-3.143524E+01	-2.964804E-02	3.594882E+00
C3	-5.136073E+02	5.248376E+00	1.950066E-01	-7.490925E+00
C4	3.596569E+00	-1.960101E-01	-7.425974E-04	2.694673E-02
C5	4.348824E-01	6.266684E-01	7.741976E-04	1.052466E-02
C6	3.975851E+00	-7.878719E-02	-1.673938E-03	7.179223E-02
C7	3.336556E-02	7.196511E-04	-1.223327E-06	4.030140E-04
C8	-2.534296E-02	6.893325E-04	7.190184E-06	-1.877700E-04
C9	-5.790024E-03	-2.927470E-03	-5.753653E-06	3.643304E-05
C10	-1.359638E-02	1.124249E-03	8.627118E-06	-2.545786E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature